

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:836651 CAPLUS
 DN 139:325043
 TI A 1,1,1,3,3-pentachloropropane process purge stream concentration using a secondary refluxed evaporator and secondary product recovery
 IN Wilson, Richard L.; Dawkins, John L.; Klausmeyer, Rodney L.; Weller, James J.
 PA Vulcan Chemicals Division of Vulcan Materials Company, USA
 SO U.S. Pat. Appl. Publ., 15 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003199716	A1	20031023	US 2002-125141	20020417
	US 6720466	B2	20040413		
	WO 2003089391	A1	20031030	WO 2003-US4212	20030211
	W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SK, TT, UA, UZ, VN, YU, ZA				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-125141	A	20020417		

OS CASREACT 139:325043

AB A process for economically producing 1,1,1,3,3-pentachloropropane from the addition reaction of vinyl chloride with tetrachloromethane under conditions which preserve the activity of the catalyst is described where a two-stage distillation process is employed. In the two-stage process, the size of the equipment, temperature, and vacuum are varied; a process flow diagram is presented.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:98042 CAPLUS
 DN 138:139165
 TI Methods and materials for the preparation and purification of halogenated hydrocarbons such as 1,1,1,3,3-pentafluoropropane
 IN Owens, Stephen; Jackson, Andrew; Sharma, Vimal; Cohn, Mitchel; Qian, John; Cheng-Ping; Sacarias, Julia Ann; Iikubo, Yuichi
 PA USA
 SO U.S. Pat. Appl. Publ., 6 pp., Cont. of U.S. Ser. No. 909,695, abandoned.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003028057	A1	20030206	US 2002-133551	20020426
PRAI	US 2001-909695	B1	20010720		

AB Methods and materials are described for the production and purification of halogenated compds. and intermediates in the production of 1,1,1,3,3-pentafluoropropane which include: (1) reacting carbon tetrachloride with vinyl chloride to produce 1,1,1,3,3-pentachloropropane; (2) dehydrochlorinating the 1,1,1,3,3-pentachloropropane with a Lewis acid catalyst to produce 1,1,3,3-tetrachloropropene; (3) fluorinating the 1,1,3,3-tetrachloropropene to produce 1-chloro-3,3,3-trifluoropropene; (4) fluorinating the 1-chloro-3,3,3-trifluoropropene to produce a product mixture containing 1,1,1,3,3-pentafluoropropane; and (5) separating

1,1,1,3,3-pentafluoropropane from byproducts.

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:977770 CAPLUS

DN 138:39028

TI Water-enhanced production of 1,1,1,3,3-pentachloropropane from the addition reaction of carbon tetrachloride with vinyl chloride

IN Branam, Lloyd B.

PA Vulcan Chemicals, USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002102750	A2	20021227	WO 2002-US18253	20020612
	WO 2002102750	A3	20030327		
	W: JP, MX				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	US 6500995	B2	20021231	US 2001-880010	20010614
	US 2003009066	A1	20030109		
	EP 1397332	A2	20040317	EP 2002-739794	20020612
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	JP 2004530712	T2	20041007	JP 2003-505295	20020612
PRAI	US 2001-880010	A	20010614		
	WO 2002-US18253	W	20020612		

OS CASREACT 138:39028

AB 1,1,1,3,3-Pentachloropropane is prepared in increased yield by the addition reaction of carbon tetrachloride and vinyl chloride, where water is added in an amount sufficient to increase the rate of the reaction.

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:809122 CAPLUS

DN 135:346135

TI Addition-reaction process for the manufacture of 1,1,1,3,3-pentachloropropane from tetrachloromethane and vinyl chloride

IN Wilson, Richard; Klausmeyer, Rodney; Branam, Lloyd; Burrows, Derrek; Strathe, Jim; Dawkins, John; Lichtenstein, Theo; Weller, Joseph; Tummons, John

PA Vulcan Materials Company, USA

SO U.S., 8 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6313360	B1	20011106	US 2000-671993	20000929
	WO 2002028806	A1	20020411	WO 2000-US32454	20001213
	W: JP, MX				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1328496	A1	20030723	EP 2000-989209	20001213
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	JP 2004524272	T2	20040812	JP 2002-532195	20001213
PRAI	US 2000-671993	A	20000929		
	WO 2000-US32454	W	20001213		

AB The title process comprises: (a) producing a product mixture in a reactor by reacting carbon tetrachloride and vinyl chloride in the presence of a catalyst mixture comprising an organophosphate (e.g., tri-Bu phosphate)

solvent, iron metal, and ferric chloride to produce 1,1,1,3,3-pentachloropropane; (b) subjecting the 1,1,1,3,3-pentachloropropane-containing product mixture from step (a) to evaporation such that a fraction enriched in 1,1,1,3,3-pentachloropropane is separated from the product mixture and a bottoms

fraction results which comprises the iron metal/ferric chloride catalyst components and heavy-end byproducts; and (c) recycling at least a portion of the bottoms fraction from step (b) to the reactor.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:573245 CAPLUS

DN 135:139001

TI Manufacture of 1,1,1,3,3-pentachloropropane with high yield for mass production

IN Ishihara, Akira; Okamoto, Satoru; Hibino, Yasuo

PA Central Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001213820	A2	20010807	JP 2000-22426	20000131
PRAI	JP 2000-22426		20000131		

OS MARPAT 135:139001

AB 1,1,1,3,3-Pentachloropropane (I), useful for manufacturing pentafluoropropane, is manufactured by reacting tetrachloromethane (II) and vinyl chloride (III) in the presence of Fe and (RO)₃POn [R = H, (un)substituted alkyl, (un)substituted cycloalkyl, aryl; n = 0, 1]. Thus, II and III were reacted in the presence of reduced iron and tri-Et phosphate to give I at yield 47.6%.

(FILE 'HOME' ENTERED AT 16:27:25 ON 09 FEB 2005)

FILE 'REGISTRY' ENTERED AT 16:27:46 ON 09 FEB 2005

L1 1 S CARBON TETRACHLORIDE/CN
L2 1 S VINYL CHLORIDE/CN
L3 1 S TRIBUTYL PHOSPHATE/CN

FILE 'CAPLUS, MARPAT' ENTERED AT 16:29:40 ON 09 FEB 2005

L4 1175 S L1 AND L2
L5 16 S L4 AND L3
L6 16 DUP REM L5 (0 DUPLICATES REMOVED)

FILE 'CAPLUS' ENTERED AT 16:30:30 ON 09 FEB 2005

L7 1175 S L1 AND L2
L8 16 S L7 AND L3
L9 16 DUP REM L8 (0 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 16:31:08 ON 09 FEB 2005

L10 1 S 1,1,1,3,3-PENTACHLOROPROPANE/CN

FILE 'CAPLUS' ENTERED AT 16:31:35 ON 09 FEB 2005

L11 16 S L9
L12 5 S L9 AND L10